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| 09/483,699      | 01/14/2000  | Scott A. Deyoe       | DP-302096           | 8714             |

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EXAMINER

ARMSTRONG, ANGELA A

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2654

28

DATE MAILED: 07/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/483,699

**Applicant(s)**

DEYOE ET AL

**Examiner**

Angela A. Armstrong

**Art Unit**

2654

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 April 2004.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8, 10-23, 25-40 and 42-48 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-5, 8, 10-20, 23, 25-37, 40 and 42-48 is/are rejected.  
7) ☒ Claim(s) 6, 7, 21, 22, 38, 39 is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

Art Unit: 2654

## **DETAILED ACTION**

### ***Response to Arguments***

1. In view of the Supplemental Appeal Brief filed on April 19, 2004, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
3. Claims 1-5, 8-14, 16-20 and 23-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Surace et al (US Patent No. 6,144,938) in view of Polikaitis et al (US Patent No. 6,336,091), and further in view of Martin et al (US Patent No. 5,553,121).
4. Regarding claims 1-5, 8-14, 16-20 and 23-31, Surace et al teach

Art Unit: 2654

memory for storing information at col. 3, lines 41-42

a processor coupled to the memory at Figure 1, element 105; col. 3, line 42

receiving voice input from the user via microphone at col. 3, lines 55-58

providing voice feedback to the user via speaker at col. 3, lines 55-58

detecting whether the user has provided voice input at col. 7, lines 49-51

determining whether a voice input is associated with a specific user at col. 22, lines 52-54

determining whether the voice input provided by the user is recognized by the speech recognition system at col. 23, lines 34-43

performing a speech selectable task when the voice input provided by the user is recognized by the speech recognition system at col. 23, lines 43-45; col. 24, lines 1-5

tracking the users interaction with system at col. 14, lines 52-57

voice feedback provided to the user is level dependent and provides available commands for a current level at the Abstract and col. 10, lines 21 continuing to col. 11, line 25

Surace et al do not specifically teach providing adaptive voice feedback to the user when the user has not provided a voice input for a predetermined user specific time period. Refer to Polikaitis et al who discloses a system for screening speech recognition input which implements

alerting or providing feedback to the user if the voice input provided by the user during a recognition window contains errors (col. 2, lines 46-48), such as a user not saying anything during the recognition window (col. 1, lines 44-51)

an adjustable recognition window (col. 9, lines 35-52)

deactivating the speech recognition system when the voice input from the user is not recognized by the speech recognition system (col. 2, lines 48-50)

activating the speech recognition system (col. 5, lines 48-50)

activating the speech recognition system via a switch (col. 5, lines 51-52)

activating the speech recognition system via voice (col. 5, lines 51-53)

Polikaitis et al teach that the system is advantageous for providing feedback instructing a user how to improve the speech input for optimizing the speech recognition system.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify the speech recognition user interface of Surace et al to implement providing voice feedback to the user when the user has not provided a voice input during a recognition window and deactivating the speech recognition system when the voice input from the user is not recognized by the speech recognition system as taught by Polikaitis et al, for the purpose of providing feedback instructing a user how to improve the speech input for optimizing the speech recognition system, as suggested by Polikaitis et al.

Surace and Polikaitis do not teach a user specific time period. Refer to Martin (col. 5, line 55-57; col. 6, line 30 to col. 7, line 13; col. 7, line 45 to col. 8, line 27) who teaches a voice response system for varying the voice menus and segments presented to the user of a voice response system according to the competence of the user. The user's average response time is measured and stored in a user profile and is used for subsequent user interaction with the facility. As the user's average response time changes, the new response time is stored and the system provides interacts and provides feedback according to the user's competence.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to implement a user specific response time period as suggested by Martin, in the voice user interface system of Surace, for the purpose of allowing experienced users the capabilities of

Art Unit: 2654

entering requests or information without waiting for the elapsing of novice or inexperienced level response periods, as suggested by Martin (col. 1, lines 63-67).

5. Claims 15, 32-37, and 40-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Surace et al (US Patent No. 6,144,938) in view of Polikaitis et al (US Patent No. 6,336,091) and Martin (US Patent No. 5,553,121) and further in view of Everhart et al (US Patent No. 6,240,347).

6. Regarding claims 15, 32-37, and 40-48 Surace et al teach  
memory for storing information at col. 3, lines 41-42  
a processor coupled to the memory at Figure 1, element 105; col. 3, line 42  
receiving voice input from the user via microphone at col. 3, lines 55-58  
providing voice feedback to the user via speaker at col. 3, lines 55-58  
detecting whether the user has provided voice input at col. 7, lines 49-51  
determining whether a voice input is associated with a specific user at col. 22, lines 52-54  
determining whether the voice input provided by the user is recognized by the speech  
recognition system at col. 23, lines 34-43  
performing a speech selectable task when the voice input provided by the user is  
recognized by the speech recognition system at col. 23, lines 43-45; col. 24, lines 1-5  
tracking the users interaction with system at col. 14, lines 52-57  
voice feedback provided to the user is level dependent at col. 10, lines 21-46

Art Unit: 2654

Surace et al do not specifically teach providing adaptive voice feedback to the user when the user has not provided a voice input for a predetermined user specific time period. Refer to Polikaitis et al who discloses a system for screening speech recognition input which implements alerting or providing feedback to the user if the voice input provided by the user during a recognition window contains errors (col. 2, lines 46-48), such as a user not saying anything during the recognition window (col. 1, lines 44-51)

a user specified or manufacturer specified recognition window (col. 9, lines 35-52)  
deactivating the speech recognition system when the voice input from the user is not recognized by the speech recognition system (col. 2, lines 48-50)

activating the speech recognition system (col. 5, lines 48-50)

activating the speech recognition system via a switch (col. 5, lines 51-52)

activating the speech recognition system via voice (col. 5, lines 51-53)

Polikaitis et al teach that the system is advantageous for providing feedback instructing a user how to improve the speech input for optimizing the speech recognition system.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify the speech recognition user interface of Surace et al to implement providing voice feedback to the user when the user has not provided a voice input during a recognition window and deactivating the speech recognition system when the voice input from the user is not recognized by the speech recognition system as taught by Polikaitis et al, for the purpose of providing feedback instructing a user how to improve the speech input for optimizing the speech recognition system, as suggested by Polikaitis et al.

Surace and Polikaitis do not teach a user specific time period. Refer to Martin (col. 5, line 55-57; col. 6, line 30 to col. 7, line 13; col. 7, line 45 to col. 8, line 27) who teaches a voice response system for varying the voice menus and segments presented to the user of a voice response system according to the competence of the user. The user's average response time is measured and stored in a user profile and is used for subsequent user interaction with the facility. As the user's average response time changes, the new response time is stored and the system provides interacts and provides feedback according to the user's competence.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to implement a user specific response time period as suggested by Martin, in the voice user interface system of Surace, for the purpose of allowing experienced users the capabilities of entering requests or information without waiting for the elapsing of novice or inexperienced level response periods, as suggested by Martin (col. 1, lines 63-67).

Surace do not specifically teach that the speech selectable task is performed by a motor vehicle accessory. Refer to Everhart et al who teach a user interface for a voice control system for controlling a plurality of adjustable parameters of vehicle accessories (abstract). Everhart teaches that voice control systems are advantageous because it allows a driver to take advantage of the accessories of the vehicle without interfering with the task of driving (col. 1, lines 11-25).

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify the system of Surace and Polikaitis et al to allow for implementation of the speech recognition user interface in a motor vehicle accessory system, as taught by Everhart et al, so as to provide feedback instructing a user how to improve the speech input for optimizing the speech recognition system, as taught by Polikaitis et al, thus ensuring that the user is able to take



Art Unit: 2654

advantage of the accessories of the vehicle without interfering with the task of driving, as suggested by Everhart et al.

***Allowable Subject Matter***

7. Claims 6-7, 21-22, and 38-39 are objected to as being dependent upon a rejected base claim, but would be allowable over the cited prior art if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

O'Sullivan (US Patent No. 5,493,608) discloses a caller adaptive voice response system.

Sakurai (US Patent No. 5,592,583) discloses a voice output device for outputting vocal instructions when the waiting time for a key input operation exceeds a set time limit.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 703-308-6258. The examiner can normally be reached on Monday-Thursday 7:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (703) 305-9645. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela A. Armstrong  
Examiner  
Art Unit 2654

AAA  
July 26, 2004

  
RICHEMOND DORVIL  
SUPERVISORY PATENT EXAMINER